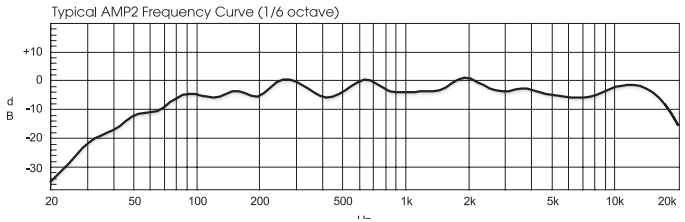
World Leader •In-Rack• Audio & Video Monitoring

WOHLER AMP2-VSDA

January 28, 2004

Premium Quality, 4 Channel, Analog, AES/EBU & SDI Self-Powered Speaker System



Features:

Premium Quality Drivers for Superior Reproduction
Listen to 2 Analog, Digital or SDI Channels, Monitor and Convert 4 Channels Simultaneously
1 SDI Input (Both Sub-Groups of Group One)
2 Unbalanced AES/EBU Digital Inputs
2 Balanced AES/EBU Digital Inputs
4 Balanced Analog Inputs (2 Stereo)
1 Reclocked SDI Output
2 Unbalanced AES/EBU Digital Outputs Demuxed from SDI Group One
4 Balanced Analog Outputs Demuxed from SDI Group One
Balanced Analog Output of Selected Source
Powerful 104dB SPL at 2 feet (0.6m)
Four 53 Segment Tri-Color Level Meters Displaying Simultaneous VU and PPM
Extended Frequency Response and Low Distortion
Focused Sound, Reduces Adjacent Bay Crosstalk
Audible Indication of Phase/Polarity Problems
Innovative LED Display of Phase/Polarity Relationships
Thorough Magnetic Shielding for Placement next to Video Monitors
Compact & Convenient, all this Power in only 2U of rack space
Headphone Jack, Mutes Speakers
Blowout Proof Speakers

The AMP2-VSDA is a complete exceptionally high quality stereo audio monitoring system in a compact two rackspace cabinet, for listening to 2 and monitoring up to 4 channels simultaneously from Analog, AES/EBU Digital and SDI sources. This unit contains three audiophile-quality drivers and three power amplifiers; two speakers and amplifiers reproduce midrange and high frequency information in stereo, while the third amp/driver combination handles summed LF information below the 500 Hz crossover point.

The AMP2-VSDA features four 53 segment high-resolution tri-color LED level meters showing simultaneous VU and PPM for superior level-metering, allowing you to monitor up to 4 channels simultaneously. The front panel features an innovative LED Display of Phase/Polarity Relationships. Output limiter circuits are incorporated to protect the speakers, and extensive magnetic shielding allows placement immediately adjacent to video monitors with no color impurities.

The unique design provides optimally focused sound for operators in an Ultra Near Field (1 to 3 ft.) working environment and offers performance comparable to that of many separate monitor pairs, yet does so without the installation hassles, awkward speaker placements and "added-on" look. This provides for a higher SPL for the operator while reducing overall ambient sound and adjacent bay crosstalk. Extended HF response reveals potential problems with audio whine or hiss and electronic rather than acoustic cancellation of bass frequencies provides positive audible detection of out-of-phase (reversed polarity) audio feeds. A headphone jack is provided on the front panel, usage automatically mutes the speakers.

The AMP2-VSDA is ideally suited for use in VTR bays, mobile production vehicles, teleconferencing installations, multimedia systems, satellite link and cable TV facilities, and on-air radio studios. Built and rigorously tested in the USA, the AMP2-VSDA is backed by a strong warranty and a "Satisfaction Guaranteed" return policy.

Wohler

Audio Monitoring | Level Metering | Alarm Systems | Video Monitoring

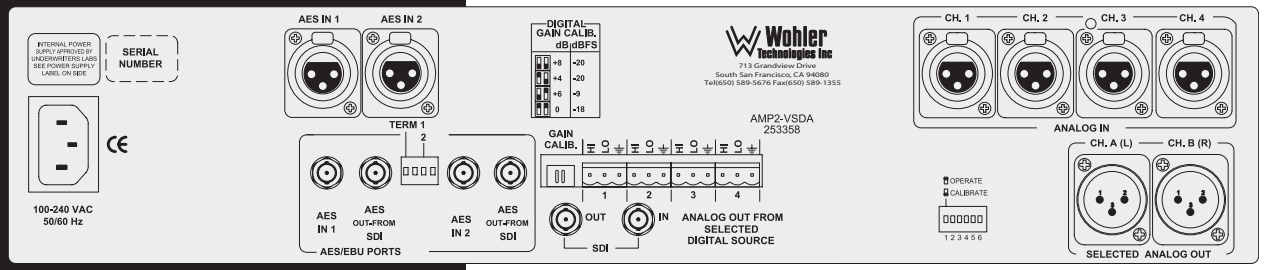
Toll Free (US): 1.888.5.WOHLER • Tel: 510.870.0810 • Fax: 510.870.0811 • 31055 Huntwood Avenue, Hayward, California 94544, USA

www.wohler.com sales@wohler.com

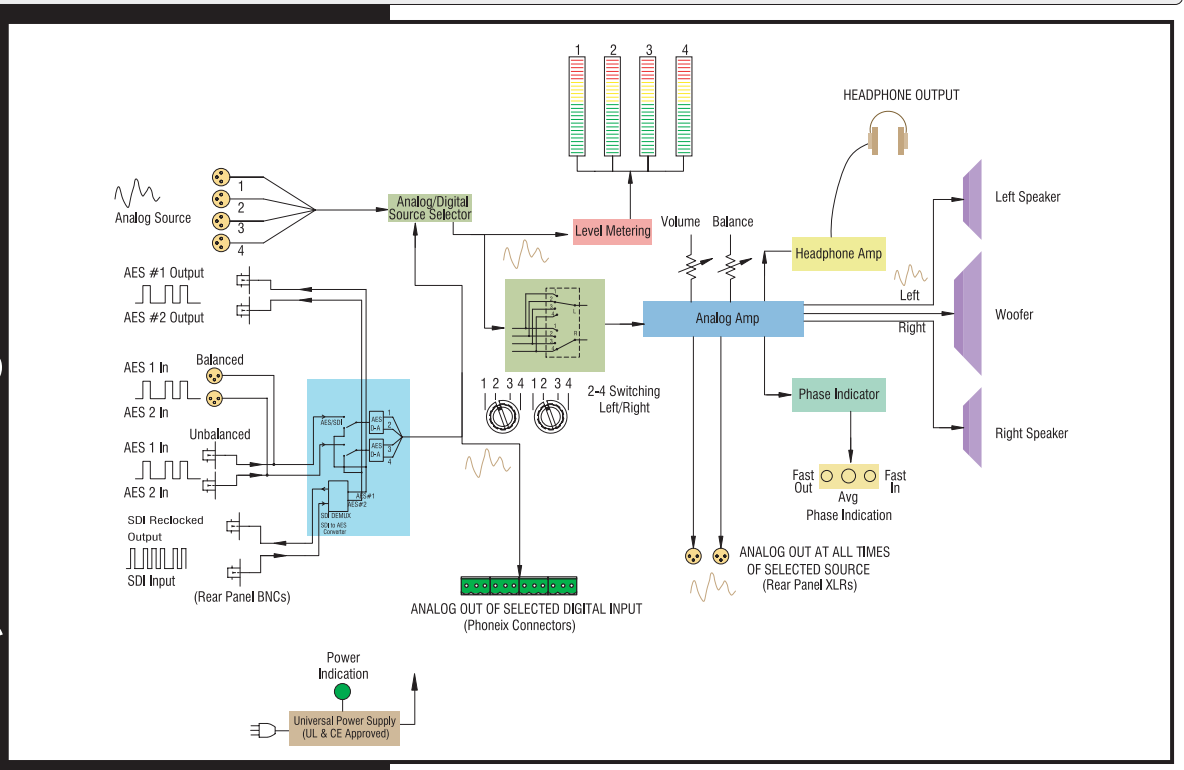
WOHLER AMP2-VSDA

Premium Quality, 4 Channel, Analog, AES/EBU & SDI Self-Powered Speaker System

Rear Panel:



System Diagram:



Specifications:

Analog input	4 balanced analog inputs, XLR
AES/EBU input	2 unbalanced (BNC) or balanced (XLR) simultaneous AES/EBU inputs
SDI input	1 SDI input, BNC
Analog output	4 balanced (phoenix terminals) analog outputs from SDI (default: group 1), or AES/EBU. Balanced (XLR) analog output of 2 selected channels
AES/EBU output	2 unbalanced AES/EBU outputs from SDI (default: group 1), BNC
SDI output	1 reclocked SDI output, BNC
Level meters	4 x 53 segment
Level meter scale	+16 to -50 dB
Level meter threshold	0, +4, +6 or +8dBv - DIP switch selectable
Level meter dynamics	simultaneous VU & PPM
Midscale resolution	1dB
Peak acoustic output @ 2 feet	104dB SPL
Power output	RMS each side (4 Ohms) - 10W, 14W peak RMS center WOOFER (4 Ohms) - 25W, 35W peak
Frequency response (1/6 octave)	80Hz - 16kHz (±5dB) (-10dB @ 40Hz, 22kHz)
Analog input impedance	>40 kOhms balanced
AES/EBU input termination	110 Ohms balanced 75 Ohms unbalanced
SDI input termination	75 Ohms unbalanced
AES/EBU input sampling rate	32-48kHz, auto-detecting
Hum and noise	better than -68dB below full output
Electrical distortion	<0.15% at any level below limit threshold
Acoustic distortion	6% or less worst case frequencies above 120Hz including cabinet resonance, typically < 1.5%
Magnetic shielding	<0.8 gauss any adjacent surface
Power consumption (AVG. MAX.)	45W
Dimensions (HxWxD)	3.5 x 19 x 12" (44.5 x 483 x 305mm)
Weight (approx.)	18lbs (8.2kg)
Power supply	100 to 240VAC, 50/60Hz universal input CE and UL approved

All specifications are subject to improvement

Toll Free (US): 1.888.5.WOHLER • Tel: 510. 870.0810 • Fax: 510.870.0811
31055 Huntwood Avenue, Hayward, California 94544, USA
www.wohler.com • sales@wohler.com